

DERWENT-ACC-NO: 1975-59413W

DERWENT-WEEK: 197536

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TITLE: Metallic salts removal from waste
water - by pptn. with
caustic alkali and addn. of silica
powder to assist
settling

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PATENT-FAMILY:

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LANGUAGE

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MAIN-IPC

JP 50008371 A

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ABSTRACTED-PUB-NO: JP 50008371A

BASIC-ABSTRACT:

Metallic salts are removed from waste water by adding
caustic alkali to ppt.
the salts as metallic hydroxides. Cryst. SiO₂ powder
(100-400 mesh) is added
to the waste water to accelerate the pptn. and coagulation
of metallic
hydroxides. Thus, 1.6 g. powdered silica (200-300 mesh)
was added to 1 l. of
an aq. soln. contg. 400 ppm Cu²⁺; and 5% aq. NaOH soln. was
added to adjust the
pH to 8.0. The coagulation and pptn. rates of flocs were
0.20 and 3.83
cm/min., resp., c.t. 0.010 and 1.12 when silica was not
added. The resulting
supernatant liq. contained 1.5 ppm Cu²⁺.

TITLE-TERMS: METALLIC SALT REMOVE WASTE WATER PRECIPITATION
CAUSTIC ALKALI ADD
SILICA POWDER ASSIST SETTLE

DERWENT-CLASS: D15 J01

CPI-CODES: D04-B02; J01-D01; J01-F01;